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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Stan Gronthos et al.

Serial No. : 10/551,162

Filed : March 29, 2004

Title : PERIVASCULAR MESENCHYMAL PRECURSOR CELLS

1185 Avenue of the Americas New York, New York 10036

August 7, 2007

MAIL STOP AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of disclosure under 37 C.F.R. §1.56, applicants direct the Examiner's attention to the following items, which are listed on the Substitute Form PTO-1449 attached hereto as Exhibit A. Item 1 is a related U.S. Patent Application Publication. No copy of this item is attached hereto as permitted by 37 C.F.R. §1.98(a)(2)(ii). Copies of the items 2-12 are attached hereto as Exhibits 1-11, respectively.

- U.S. Patent Application Publication No. 2006-0286007 A1, published December 21, 2006;
- PCT International Application No. WO 02/007679, published January 31, 2002; (Exhibit 1)

Applicants: Stan Gronthos et al.

Serial No.: 10/551,162 Filed: March 29, 2004

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- 3. PCT International Application No. WO 00/06701, published February 10, 2000; (Exhibit 2)
- 4. Shi S et al: "Perivascular niche of postnatal mesenchymal stem cells in human bone marrow and dental pulp." Journal of Bone and Mineral Research, vol. 17, no. Suppl 1, September 2002 (2002-09), page S446, XP009083412 & Twenty-Fourth Annual meeting of the American Society for Bone and Mineral Research; San Antonio, Texas, USA; September 20-24, 2002; (Exhibit 3)
- 5. Jones Elena A et al: "Isolation and characterization of bone marrow multipotential mesenchymal progenitor cells." Arthritis and Rheumatism Dec 2002, vol. 46, no. 12, December 2002 (2002-12); (Exhibit 4)
- 6. Gronthos S et al: "Postnatal human dental pulp stem cells (DPSCs) in vitro and in vivo." Proceedings of the National Academy of Sciences of USA, National Academy of Science, Washington, DC, US, vol. 97, no. 25, 5 December 2000 (2000-12-05), pages 13625-13630; (Exhibit 5)
- 7. Shi S et al: "Comparison of human dental pulp and bone marrow stromal stem cells by cDNA microarray analysis."

  Bone, Pergamon Press., Oxford, GB, vol. 29, no. 6, December 2001 (2001-12), pages 532-539; (Exhibit 6)
- 8. Shi S et al: "Perivascular niche of postnatal mesenchymal stem cells in human bone marrow and dental pulp." Journal of Bone and Mineral Research, New York, NY, US, vol. 18,

Applicants: Stan Gronthos et al.

Serial No.: 10/551,162 Filed: March 29, 2004

Page 3

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no. 4, April 2003 (2003-04), page 696-704; (Exhibit 7)

- 9. Gronthos Stan et al: "Molecular and cellular characterization of highly purified stromal stem cells derived from human bone marrow." Journal of Cell Science, vol. 116, no. 9, 1 May 2003 (2003-05-01), pages 1827-1835; (Exhibit 8)
- 10. Tse H F et al: "Angiogenesis in ischaemic myocardium by intramyocardial autologous bone marrow mononuclear cell implantation." Lancet The, Lancet Limited, London, GB, vol. 361, no. 9351, 4 January 2003 (2003-01-04), pages 47-49; (Exhibit 9)
- 11. Supplementary European Search Report from European Patent Office, Application No. EP 04 72 3935, 10 May 2007; (Exhibit 10) and
- 12. Supplementary European Search Report from European Patent Office, Application No. EP 04 72 3937, 25 May 2007; (Exhibit 11)

Items 2 and 4-9 were cited in a Supplemental European Search Report in connection with corresponding European Application No. 04723935.5, a copy of which is attached hereto as Exhibit 10.

Items 3-7 and 9-10 were cited in a Supplemental European Search Report in connection with related European Application No. 04723937.1, a copy of which is attached hereto as Exhibit 11.

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Filed: March 29, 2004

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Information Disclosure Statement This Supplemental is being submitted pursuant to 37 C.F.R. §1.97(b)(3) and no fee is deemed necessary.

Applicants request that the Examiner review the references and make them of record in the subject application.

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicants' undersigned attorneys invite the Examiner to telephone them at the number provided below.

No fee is deemed necessary in connection with the filing of this Supplemental Information Disclosure Statement. However, fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-3125.

Respectfully submitted,

hereby certify that correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:

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Alexandria, VA 22313-1450

No. 28,678

John P. White

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New York, New York 10036

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Under the Paperwork Reduction Act of 1995, no persons are required to respo

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known		
Application Number	10/551,162	
Filing Date	3/29/04	
First Named Inventor	Stan Gronthos	
Art Unit		
Examiner Name		
Attorney Docket Number	2251/75190	

Examiner	Cite	Document Number	U. S. PATENT D	Name of Patentee or	
Initials*	No.	Number-Kind Code <sup>2</sup> (# known)	MM-DD-YYYY	Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. Applicant is to place a check mark here if English language

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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Serial No.: 10/551,162 Filed: March 29, 2004

Exhibit A

U.S. Department of Commerce Patent and Trademark Office  INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)  OTHER DOCUMENTS (Including Author, Title, Date Shi S et al: "Perivascular niche of postnatal mesenchymal stem Journal of Bone and Mineral Research, vol. 17, no. Suppl 1, Se NP009083412 & Twenty-Fourth Annual meeting of the Americ 3 San Antonio, Texas, USA: September 20-24, 2002.  Jones Elena A et al: "Isolation and characterization of bone mar 4 cells," Arthritis and Rheumatism Dec 2002, vol. 46, no. 12, Dec Gronthos S et al: "Postnatal human dental pulp stem cells (DPS National Academy of Sciences of USA, National Academy of S 5 December 2000 (2000-12-05), pages 13625-13630.  Shi S et al: "Comparison of human dental pulp and bone marroy analysis." Bone, Pergamon Press., Oxford, GB, vol. 29, no. 6, E	cells in human bone marrow ptember 2002 (2002-09), page an Society for Bone and Minrow multipotential mesench cember 2002 (2002-12), page Cs) in vitro and in vivo." Pro	and dental pulp.' ge S446, neral Research; ymal progenitor es 3349-3360.
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